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OFFICE OF THE

SENIOR MEDICAL OFFICER-IN-CHARGE,

HEALTH DEPARTMENT,

ZANZIBAR,

- 1st June, 1951

Sir,

I have the honour to submit for the information of His Excellency the British Resident and for transmission to the Right Honourable the Secretary of State, the Medical Report on the Health and Sanitation conditions of the Zanzibar Protectorate for the year 1950.

I have the honour to be, Sir,

Your obedient servant,

C. R. C. RAINSFORD,
Senior Medical Officer-in-Charge, Health Department

THE HONOURABLE

THE CHIEF SECRETARY TO THE GOVERNMENT,

ZANZIBAR

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ZANZIBAR PROTECTORATE

Medical and Sanitary Report for the year ended 31st December, 1950

SECTION I.—ADMINISTRATION: GENERAL REVIEW

STAFF

Dr. Purnell, Specialist Officer, and Dr. Tallack, proceeded on vacation leave in July, 1950, and Dr. Merson proceeded on leave prior to transfer to Tanganyika. Dr. Young returned from leave in June, and was appointed Acting Specialist Officer and Medical Superintendent-in-Charge, Mental Hospital. Dr. Jones-Hughes arrived on first appointment in June, and was posted to Pemba as District Medical Officer and Medical Officer of Health, Pemba. Dr. Rainsford took over the duties of Medical Officer of Health, District Medical Officer-in-Charge District Dispensaries, and Port Health Officer in addition to his duties of Senior Medical Officer-in-Charge, Medical and Sanitary Services.

Mr. Goram, Sanitary Inspector-Teacher, went on leave in April, 1950, prior to transfer to Kenya. He is not being replaced.

Miss Beecroft, Matron, returned from leave in April, 1950, and two new Nursing Sisters, Miss Tighe and Miss Rowlinson, arrived on first appointment during July, 1950. Miss Allen, Nursing Sister, proceeded to the United Kingdom in September to take the Sister-Tutor course in Edinburgh.

Mr. Soud Mohamed Kharusi, Assistant Dental Surgeon, having completed his studies in England and obtained the L.D.S. Diploma returned in June, 1950.

Mr. Fowzy Salim Bussaidy having obtained his diploma at Makerere was appointed as Assistant Medical Officer in January, 1950.

Mr. Said Mahfuth bin Gurnah, Assistant Medical Officer, continued his studies of Radiology in the United Kingdom during the year.

Mr. Dina Nath Koura, Sub-Assistant Surgeon, was promoted to the post of Senior Sub-Assistant Surgeon in 1950.

TRAINING OF NON-EUROPEAN PERSONNEL

Systematic training of Sanitary Inspectors ceased when the European Sanitary Inspector proceeded on leave in April, 1950. Nevertheless eight candidates all of whom had had instruction sat for the examination of the Royal Sanitary Institute held in December, 1950, in Zanzibar, out of whom only two passed. This was not unexpected as these men had all failed at previous attempts. It is thought that in future it would be more economical to have Sanitary Inspectors trained in Kenya or Uganda.

The training of Hospital Attendants and Nurses is the same for both categories; hospital attendants are male nurses. The training course extends over three years. At the final examination held in December, 1950, seven passed. The external examiner was very satisfied with the standard reached.

The course of training Midwives is normally of two years, but a trained Nurse can complete it in one year. Five passed the final examination in December, 1950 (two are trained nurses).

DISTINGUISHED VISITORS

Dr. Lloyd Rusby, M.A., D.M., F.R.C.P., Professor H. J. Seddon, F.R.C.S., L.R.C.P., M.B.B.S., and Dr. H. J. Peel, M.A., B.M., F.R.C.S., F.R.C.O.G., of the Nuffield Panel visited Zanzibar during the year. Professor F. J. C. Cambournac of the World Health Organization, Professor J. F. Brock, M.R.C.S., M.R.C.P., B.M., B.Ch., D.M., from Cape Town University, and Dr. D. M. Blair from Southern Rhodesia also visited Zanzibar during the year.

Useful discussions took place with all these eminent visitors. We are especially indebted to Dr. Lloyd Rusby and Professor Seddon for advice and encouragement in respect of our control of Tuberculosis campaign.

Hospitals

A.—Buildings

- (i) Minor alterations were carried out at the Zanzibar Hospital to enable the old female out-patient department to be transferred to the "Septic Block". This was necessary as the old female out-patient building had to be demolished to make room for the new hospital. A contract for the construction of the new hospital was signed.
- (ii) The new forty-bed ward at Wete Hospital, Pemba, was completed and opened by His Highness the Sultan on 18th March, 1950. The new operating theatre was finished in June, 1950, and a new kitchen in October, 1950.
- (iii) A new Maternity Hospital (six beds) was completed and opened at Makunduchi, forty miles from Zanzibar, by Her Highness the Sultana in August, 1950. It is proving very popular, eighty in-patients and 106 antenatal cases being treated up to the end of December, 1950.

B.—General

The working of the hospitals was maintained and the number of inpatients treated was 6,011 compared with 6,228 in 1949.

DISPENSARIES

The number of patients treated in dispensaries was—

 New cases
 ...
 ...
 54,603

 Re-attendances
 ...
 ...
 134,718

MATERNITY AND CHILD WELFARE

The services were satisfactorily maintained. There were 543 confinements in Government hospitals compared with 490 in 1949.

SCHOOL MEDICAL AND DENTAL SERVICES

The school dental services having been in abeyance for two years recommenced in the middle of the year on the return of the Assistant Dental Surgeon to duty on the 5th June, 1950. The school dental inspections were carried out for the year and out of 5,723 children inspected, 3,121 children were found to be dentally unfit.

Tuberculosis

A tuberculosis service was conceived during 1950 and its birth in 1951 is eagerly awaited.

Its conception was carefully planned and its pre-natal development anxiously watched by members of the department advised by several distinguished consultants.

It is confidently hoped, therefore, that the new child will be born healthy and will grow vigorously until it reaches maturity as a full-blooded tuberculosis service.

The main features of this scheme are—

- 1. (i) The erection of a sanatorium of 30 to 40 beds. To this end an old school was taken over at Dole, thirteen miles from Zanzibar, and the work of adapting it to a Sanatorium was almost complete by the end of the year. The site which is on relatively high ground is an excellent one with ample room for expansion.
- (ii) It has the additional advantage of being within a mile of an agricultural farm.
- 2. An additional Medical Officer has been sanctioned in the 1951 Estimates to enable us to put one Medical Officer on full-time tuberculosis duties. He will take charge of the sanatorium and will carry out a tuberculin survey and advise regarding the use of B.C.G. vaccine.

SECTION II,—PUBLIC HEALTH

1. RETURNS

The total number of patients seen at hospitals and dispensaries during the last five years was as follows:—

		1946	1947	1948	1949	1950
New cases	• • •	$125,\!557$	131,955	138,939	127,816	133,216
In-patients		6,643	7,257	6,819	6,228	6,011
Total attendances		430,331	$525,\!473$	454,236	304,687	305,597
Deaths in Hospitals		504	482	376	318	357

The principal causes of deaths in Government hospitals were-

Tuberculosis			* * *		14
Dysentery		111		* * *	3
Tetanus			• • •		3
Malaria		1 1 1	• • •	b 0 b	20
Pneumonia			* * *	* * *	38
Diseases of the	blood ar	nd blood-fe	orming o	rgans	30
Diseases of the	skin, c	ellular tis	sue, bon	e and	
organs of	locomot	ion	6 4 8	å + b	32
Ankylostomiasis	3		4 + 4	* * *	18
Diseases of the	circula	tory syste	m	* * *	81

2. GENERAL DISEASES

- 1. Epidemic, endemic and infectious diseases.—In this group there were 22,270 cases with 70 deaths.
 - 2. General diseases.—2,884 cases were recorded.
- 3. Diseases of nervous system and organs of sense.—6,363 cases were treated. The majority 4,865 were diseases of the eye including 14 cases of trachoma.
- 4. Affections of the circulatory system.—287 cases were reported including 139 of heart disease with 27 deaths.
- 5. Affections of the respiratory system.—In this large group of 9,029 there were 667 cases of pneumonia with 38 deaths. This compares with 696 cases and 47 deaths in 1949.
- 6. Affections of the digestive system.—There were 11,538 cases in this group including 624 of hernia.
- 7. Diseases of the genito-urinary system.—2,814 cases of non-venereal diseases of the genito-urinary system were treated.
 - 8. Puerperal state and diseases of infancy.—186 cases were reported.
- 9. Affections of the skin, cellular tissue and organs of locomotion.—17,530 cases were recorded. They included tropical ulcers, septic conditions of the skin and myalgia.
- 10. Affections produced by external causes.—There were 9,836 cases the majority being minor injuries.

COMMUNICABLE DISEASES

(A) INSECT-BORNE

Malaria.—8,832 cases were recorded, of these 597 were treated as inpatients with twenty deaths. The corresponding figures for 1949 were 8,222 cases including 584 in-patients and twelve deaths.

Blackwater.—Six cases were treated during 1950 with no deaths.

Relapsing Fever.—No case was recorded.

Plague.—The Protectorate continues to be free from plague. The usual precautions were taken to prevent its introduction.

(B) INFECTIOUS DISEASES

Smallpox.—There was no case of smallpox reported during the year.

During the epidemic in the Lindi District in Tanganyika special precautions were taken to prevent the disease being introduced into Zanzibar. All passengers from the area were placed under surveillance.

Vaccinations are performed daily at the Health Office, Zanzibar, and in Pemba, mainly in connection with passengers leaving the Protectorate by sea and air. Only the International Certificates are issued.

The following vaccinations were performed:—

TIE TOOCITION OF OTHER	AA OT O	portoritioa.		
Zanzibar township	* * *	•••	• • •	15,374
Ships and dhows	• • •	•••	•••	3,739
Zanzibar Island	• • •		•••	19,113
Pemba	* * *	• • •	•••	792
		Total	•••	19,905

Tuberculosis.—210 cases attended Government hospitals. Admissions to hospitals numbered 95 and there were 14 deaths.

The District Sanitary Inspectors in Zanzibar Township regularly visited all cases in their areas at monthly intervals to ascertain condition of patients and change of domicile, and to ensure that preventive measures were being carried out. Disinfectant was issued for the treatment of infected sputum.

Family contacts of the patients were medically examined for the detection of early infections.

The Local Welfare Society was informed of all cases to enable their staff to render any assistance found necessary on investigation.

Leprosy.—The Leper Settlements at Welezo (Zanzibar) and Makondeni (Pemba) were maintained as in previous years.

The number cared for was as follows:—

	Welezo	Makondeni
Remaining on 31st December, 194	9 - 52	 52
Admitted during 1950	. 10	 2
Discharged	. 1	
	. 12	 4
Transferred to Welezo Institute		 1
Remaining on 31st December, 195	9 49	 49

Welezo

The management of the Welezo Leper Institute remains under the care of the Roman Catholic Mission.

The completion of two new stone houses at the Leper Settlement has provided better accommodation for four leper families. Those patients who are capable of working are employed by the Mission and paid.

The completion of one new house will provide accommodation for six boys (servants).

Makondeni (Pemba)

Staff and accommodation remained unchanged from 1949.

The Sanitary Inspector, Wete, supervises the running of the settlement and a Hospital Orderly is in actual charge and lives on the spot.

Some of the inmates are employed for work in the settlement and are being paid from public funds.

They are as follows:—

Cleaners			 4
Dressers	• • •	• • •	 1
Cook		• • •	 1
Dhobi			 1
Gardener			 1
Water carrier		• • •	 1
Wood chopper			 1
v	• • •	• • •	 1
Herdsman	• • •		 1 (non-leper).

It has been necessary to carry out extensive repairs to the buildings because of damage by white ants.

The District Medical Officer, Pemba, visits the settlement once a week, all patients are seen in rotation as a routine and any cases requiring extra attention are seen whenever necessary.

Specific treatment with "Alepol" is given to selected cases, but a supply of Sulphone is expected shortly.

VITAL STATISTICS.

Population—					
1949 Census	•••				268,508
Add births	• • •	• • •	5,514	• • •	
Immigrants		• • •	32,915	• • •	38,429
	Total	• • •	•••	•••	306,937
Deduct deaths	• • •	• • •	4,283	• • •	
Emigrants	•••	• • •	30,592	• • •	34,875
Total estimated	l popula	tion fo	or 1950		272,062

Births and deaths.—A total of 3,582 births and 2,719 deaths were recorded in Zanzibar, and 1,932 births and 1,564 deaths registered in Pemba. Birth rate 20.40 per thousand. Death rate 15.81 per thousand.

Infantile mortality.—459 deaths of children under one year were registered. Infantile mortality rate 83.24 per thousand live births.

Still-births.—52 still-births were registered. Still-birth rate 9.43 per thousand births.

Maternal mortality.—Six maternal deaths were registered. Maternal mortality rate 1.40 per thousand.

SECTION III.—HYGIENE AND SANITATION

Mosquito Control Inspection of Premises.

		Zanzibar township		Protective belt outside township
European		6,364		202
Indian		119,200		368
Arab	• • •	65,997		744
African		216,163	• • •	17,374
Other	• • •	36,162		
Vacant houses		9,983	• • •	694
Mosques and ter	ples	$6,\!253$	• • •	630
		$460,\!122$		20,012

Other Inspections:

	Zanzibar		Protective belt
	township		outside township
Sullage and cesspits	172,147	• • •	8,778
Drains	17,647		1,899
Gully traps	60,378		903
Roof Gutterings	2,580	• • •	69
Borrow-pits	933		3,680
Swamps	43		461
Crab holes	113,312	• • •	4,486
Anti-malaria drains	2,793	• • •	1,506
Dhows on beach	196		1,369
Boats	1,556	• • •	1,248
Wells and water holes	1,904		3,649
Pools	1,873	•••	4,854
Gardens	13,307		529
Graveyards	7,673	• • •	851
Open lands	17,039		5,893
Trees	9,247		60,781
Mosquito traps	126	•••	_
			100.050
	444,104		100,956

Breeding places found:

		Zanzibar township		Protective belt outside township
Anopheles	• • •	90	• • •	173
Aedes		1,050		102
Culex		376	• • •	190
		1 530		108
		1,516		465

Adult Mosqutoes caught in control stations:

		$Zanzibar\ township$	Protective belt outside township
Anopheles		164	 46
Aedes		158	 78
Culex	• • •	5,651	 726
		5,973	850
Aedes Index (per cent)	0.22	0.03

Action taken:

	$Zanzibar \ township$	Protective belt atside township
Notice for abatement served	1,110	 41
Prosecutions for failure to abate	11	 entherent.
Earth drains or ditches cleaned and graded		
(linear feet)		 54,450
Low-lying land raised (square yards)	3,438	

The following number of oilings were made:—

					$Zanzibar \ township$		Protective belt utside township
Drains					644		45
Tanks					118		—
Cesspits					22,157		52
Sullage-pits					5,543	• • •	maninalities, ad
Swamps and pools		• • •	• • •	* * *	736		149
Pools or excavation	ns filled	in		• • •	26		
Holes in trees fille	ed in		• • •		1		12
Crab holes oiled a	nd filled	in		• • •	864		4,486
Crab holes found of	ontaining	g larvæ			315		
Dead crabs found	after bei	ng poiso	ned		1,971		************
Spraying of swamp	s, pools	and rice	e fields	with			
paris green				• • •		• • •	28
Eaves and gutters	removed	or re-a	ligned		1		
Water tanks rende	red mos	quito-pro	of		4		
Bush and undergro	wth clear	ed (squa	are yard	ds)4	,715,517	• • •	407,200
Shells, coconut hus	ks, tins,	etc., re	moved				54,715
Premises sprayed	with D.1	O.T. sol	ution		75	• • •	

There was a considerable decrease in the number of Aedes breeding places found in the township.

CATCHES
OSCILLO
ADULT
OF
TOTALS
-Yearly Totals of Adult M
PRISONS—
ZANZIBAR

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First Offenders	Rainfall 52.55	73.11	75.01	36.54	57.61		TIL MOSQUITO		RS	Aedes	1	GHT IN		dary	$x ightarrow \eta n_{,j}$	225	80	949	2 C	170	7 7 8 8	0 0	20
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								FIRE	An opheles	47					1943	1944	1945 1046	1940	194. 1948	1949	1950	7000	

ADULT MOSQUITOES CAUGHT ON WEEKLY VISITS IN CONTROL STATIONS IN ZANZIBAR TOWNSHIP, 1950

" A " Sanitary District A G S	Sanitary District A C S	" C" Sanitary District A C S	"D" Sanitary District A C S	" E" Sanitary District A C S	" F" Sanitary District A C S
		53	39	2 40	301

ADULT MOSQUITOES CAUGHT ON DAILY VISITS IN SPECIAL CONTROL IN ZANZIBAR TOWNSHIP, 1950

A	James of Deserver	1strice	Sameary Destrict		1010 L	
	0	Ae.	A C Ae.	A	0	Ae.
•	2,465	•	2,466	•	4,931	•

Protective Barrier

All houses in the half-mile protective belt outside the town boundary were sprayed with D.D.T. wettable powder, during February, June and October, 1950.

Check on Preventive Measures

During the year commencing from March, six control stations have been set up, three within and three outside the town. These were sprayed with pyrethrum solution once a week.

Immediately after spraying the following dead mosquitoes were collected:—

	In	sia	le To	wn B	Sound	ary					Outs	side T	own.	Boune	lary		
Men Hosp				[ut N 37/60		В	[ut N 24/1			ut No Iazizi		Mal	No. zundi Road	uchi		No. arahı	
\mathbf{A}	S		A	С	S	A	С	S	A	С	S	A	С	S	A	\mathbf{C}	S
0 16	0		0	313	0	0	122	1	0	161	0	5	47	0	1	47	0

Malaria in Europeans

These are confirmed cases with parasites present in the blood. These figures are for Zanzibar only (Pemba not included).

					In	-patier	its					
1944 73		$1945 \\ 56$		$\frac{1946}{27}$		$\frac{1947}{22}$	•••	19 4 8 13	• • •	$\frac{1949}{7}$	• • •	1950 9
, 0	* * *	00	• • •	2,			•	10	• • •	•	• • •	U
					Out	$t ext{-}patie$	nts					
1944		1945		1946		1947		1948		1949		1950
90	• • •	64	• • •	41	• • •	38	• • •	33	• • •	12	• • •	10

Infectious Diseases

The following table is a comparison of the more important infectious diseases notified for the past five years:—

-	U				
	1946	1947	1948	1949	1950
Chicken-pox	102	195	44	421	131
Diphtheria	2	5	'7	4	
Dysentery, amæbic	87	83	69	83	89
,, bacillary	23	15	38	14	34
German measles	13	7	9		1
Leprosy	17	7	20	20	12
Measles	7	77	52	37	6
Mumps	16	2	4	40	34
Puerperal fever		1	1	~~	14
Relapsing fever	53	3	1	2	1
Tuberculosis	101	120	125	168	135
Typhoid fever	8	9	13	12	11
Whooping cough	6	46	24	59	45

LICENSED PREMISES

All licensed premises were continued as usual to be annually inspected before the issue of licences were recommended by the Health Officer. The co-operation of the Municipal Officer has been of great assistance in carrying out of this important work during the year.

This work involved the inspection of 101 eating houses, 15 houses-let-in-lodgings, 29 laundries, 10 bakehouses, 11 dairies and one communal rest house and the issue of notices when the premises were found to be below the required legal standard.

FACTORIES

District Sanitary Inspectors continued to carry out their duties as Inspectors of Factories under the Factories (Supervision and Safety) Decree, 1943, and regularly visited the premises.

. Notices were served for the remedy of defects affecting the health and safety of the persons employed.

GENERAL MEASURES OF SANITATION

(a) Sewage Disposal and Drainage Improvements in Sanitation of Private Houses

Gradual progress has continued in converting insanitary pit latrines into water-flushed closets, although there is still a shortage of the necessary materials.

Nineteen septic tanks were constructed by private owners and forty water-flushed closet pans installed. 1,820 feet of 4-inch and 325 feet of 6-inch glazed earthenware drain pipes were laid and 277 feet of 4-inch iron soil pipes and 80 feet of 3-inch iron waste pipes were fixed.

This enabled 20 cesspits, and 29 sullage pits to be abolished and filled in.

In many cases the work was only performed after long and tedious law cases.

(b) Scavenging and refuse disposal

This service is controlled by the Medical Officer of Health, Zanzibar, and in Pemba by the District Medical Officer.

Most of the refuse is disposed of by controlled tipping.

Altogether 106,515 cart-loads were dealt with during 1950.

CONTROL OF FLIES

Locally made fly traps are extensively used in all areas. A fly searcher also visits all districts in Zanzibar township to discover any breeding places, which are immediately dealt with.

Number	of fly	y traps	used:	
--------	--------	---------	-------	--

Zanzibar !	Town		* * *	 	54
Zanzibar I	Rural	Districts		 	29
Pemba	,			 	28

Number of fly breeding places detected:—

Deposits of refu	se		* * *		43
Trapped gullies	1				12
Cowdung		111	* 4 *	4 + +	6
Dead animals	* * *	111	1 1 1	0.0.4	13
Animal excreta	111	+++	4 = 8	1 + 1	5
Human excreta	8.8.8	3 6 9	ž 4 ž	+ 4 +	3

82

The meat and fish sections of the central market were sprayed with D.D.T. solution during the year, and resulted in a considerable reduction of flies.

Immunisation Against Yellow Fever

During 1950, 3,270 people were immunised against yellow fever. Yellow fever certificates issued were in accordance with the International Sanitary Convention.

Also 427 persons were immunised against cholera, and 267 persons against typhoid before proceeding overseas.

Housing and Town-Planning, Zanzibar Township

Inspections and recommendations were made in connection with the following applications made to the Joint Building Authority.

STONE BUILDINGS

Applications with plans Erections of new buildings	1947 8	1948 15	1949 23	1950 26
Major alterations and additions including drainage to existing buildings		104	115	100
$A_{i}pplications$ without plans	1947	1948	1949	1950
Alterations and additions	221	132	256	257
Permits refused	5	8	4	5
Notices served for unauthorised works	24	9	23	14
Notices served for dangerous structures	97	102	190	116
Native-Type Buil	LDINGS			
	1947	1948	1 949	1950
Erection of new huts	320	166	137	170
Reconstruction and extension of existing huts	372	584	245	227
Repairs to existing huts	751	634	1,366	1,420
Notices served for unauthorised works		23	34	54
Notices served for demolition		12	6	10

RUINOUS OR INSANITARY HUTS DEMOLISHED

		1947	1948	1949	1 950
Stone Town		 11	9	23	_
Ngambo	• • •	 123	114	80	25

FOODSTUFFS IN RELATION TO HEALTH AND DISEASE

All licensed premises dealing with food such as eating houses, bake-houses, milk shops, etc., and markets were regularly inspected, and the necessary improvements affected where found necessary. One hundred and seventy-four notices were served in connection with these improvements.

Licensed hawkers of food were kept under strict observation, and all their utensils had to be approved and stamped by the Health Office staff before use. This work involved the checking of two hundred and forty hawkers.

Three hundred and seven samples of milk were taken for chemical analysis. Out of these 112 from the town dairies and 195 from the milk vendors from the rural districts. In addition 18,387 lactometer tests were carried out at the milk depot, where milk brought from the rural areas is presented for inspection and sealing of milk cans before sale.

Sixty milk vendors were taken to court and convicted for selling milk below the legal standard.

Foodstuffs in the markets and throughout the town were frequently inspected. The following include some of the items found unfit for human consumption:—

Meat		108 lb.
Vegetables		18,785 ,,
Fruits		920 .,
Grain		7,200 ,,
Onions		128,938 ,,
Potatoes		4,446 ,,
Tinned foods		1,121 ,,
Mixed beans		, - , , ,
(Maharagwe)		124 ,,
Beans (Kunde)		1,260 ,,
Chocolates and Sweet		0.000
CHOCOLOGO SHU DILGGI	(D	2,080 ,,

PEMBA

PUBLIC HEALTH IN PEMBA

This was under the direct control of the District Medical Officer, Pemba.

Sanitary Inspectors are posted at Wete, Chake-Chake, Mkoani and Konde.

Anti-Malarial Measures.—During the year 300 yards of earth drains were laid, 950,669 square yards of bush cleared and 1,594 trees were planted.

Mosquito Control.—The following numbers of mosquitoes were caught in control stations:—

Anopheles	Aedes	Culex
38	 1.578	 4.473

Sewage Disposal and Drainage.—Seven W.C.s were constructed and 227 feet of earthenware pipe drains were laid. Four septic tanks constructed and twenty six emptied.

Scavenging.—22,623 cartloads of refuse were removed and disposed of by controlled tipping.

Infectious Diseases.—No serious epidemic occurred, but 70 cases of Lobar Pneumonia were notified.

Vaccinations.—792 small-pox vaccinations were performed.

Immunisation against Yellow Fever.—During 1950, 370 people were inoculated against yellow fever in Pemba.

Inspection of foodstuffs.—The following were condemned:—

Mill:		 191 gall.
Meat	• • •	 419 lb.
Fish		 806 ,,
Beans	•••	 1,050 ,,
Mtama	• • •	 327,
Fruit and	vegetables	 511 ,,
Onions		 82 ,,
Mandazi		 9 ,,
Copra		159

Housing.—The following is a summary of the work done:—

Total number of buildi	ng applic	eations	• • •	433
To build huts		•••		153
To build stone buildin	gs		• • •	18
To repair huts				232
To repair stone building	ıgs			16
To re-build huts				14
Demolitions		• • •		11

PUBLIC HEALTH WORK IN RURAL AREAS

A trained Sanitary Inspector was posted to the village of Chwaka during the year. A piped water supply is being constructed here and it is expected that the village will develop rapidly.

The Sanitary Inspectors at Makunduchi and Mkokotoni continued their routine duties.

SCHOOL MEDICAL AND DENTAL SERVICES

The improved staff position enabled the school medical examinations to be reinstated. 1,706 pupils were examined in Zanzibar, and 369 in Pemba.

The school dental service which was discontinued in 1948 was re-started in July this year both in Zanzibar and Pemba.

AMBULANCE SERVICE

During the year 1,060 patients were collected from the rural districts by ambulance and brought to the hospital for treatment. This work involved a total mileage of 12,794 in Zanzibar and 6,353 in Pemba.

A new Austin A40 ambulance arrived in October, and was sent to Pemba to replace the borrowed truck which has been used for months.

SECTION IV—PORT AND AERODROME HEALTH WORK AND ADMINISTRATION

The following is the record of these sections during the year 1950:—

Port:

Ships which called	580
Dhows which called	1,367
Immigrants who arrived by	sea 21,809
Emigrants who left by sea	19,285
Vaccinations carried out in s	hips and dhows 3,739

Aerodrome:

Aircraft v	vhich	landed	3 5 6		151		2,937
Imm grant	s who	arrived	by	air		4 + 6	11,124
Emigrants	who	left by	air		24.	å 5 å	11,307

During the course of the careful checking of all health documents the following passengers were found to have arrived either without the necessary vaccination and yellow fever certificates, or their certificates had expired or were otherwise invalid.

 Ships' passengers
 ...
 ...
 ...
 607

 Air passengers
 ...
 ...
 246

DERATISATION OF SHIPS

Four ships were inspected and issued with the International Deratisation Exemption Certificates.

QUARANTINE STATION

Further repairs of buildings on the island were carried out, and the furniture of the bungalows renovated.

The routine cleaning of bush, filling of depressions, levelling of roads, etc., were performed.

During the year no person was placed in quarantine.

SECTION V.—MATERNITY AND CHILD WELFARE

As mentioned in the previous reports clinics for women and children were maintained on both islands.

The following tables show the numbers attending the women's clinic during the past five years:—

MATERNITY AND CHILD WELFARE

Control classes New cases Alebandian Alebandian New cases Alebandian			1946	51	1947	16	1948	16	1949	18	1950
Coractes 11,327 34,196 11,900 34,214 12,614 38,646 11,712 36,769 11,733 34,244 12,614		New cases	Re- attendances	New cases	Re- attendances	New cases	Re- attendances	New cases	Re- attendances	New cases	Re- attendances
Total 12,025 36,242 12,633 36,988 13,404 41,020 12,497 38,710 12,567 8 Total 1,031 2,480 1,096 4,588 1,480 5,380 1,327 4,079 1,215 2,508 Total 2,77 1,064 2,44 1,087 8,64 2,839 1,617 2,568 3,022 3,032 Total 1,841 6,052 2,028 8,640 2,839 9,605 2,305 7,182 1,786 Total 1,841 6,052 2,028 8,640 2,839 9,605 2,305 7,182 1,786 Total 248 299 344 333 899 Total 1,841 2,605 2,028 8,640 2,839 3,605 2,305 7,182 1,786 Total 248 299 344 333 899 Total 248 249 249 249 249 249 249 249 Total 248 249 249 249 249 249 249 249 Total 249 249 249 249 249 249 249 249 Total 240 2,839 2,605 2,305 7,182 1,786 Total 240 2,839 2,605 2,305 2,410 2,899 Total 240 2,839 2,410 2,899 Total 240 2,839 2,410 2,899 Total 240 2,899 2,899		11,327 415 283	34,190 1,112 940	11,900 485 248	34,214 1,599 1,125	12,644 396 364	38,646 1,338 1,036	11,712 423 362	36,769 1,151 790	11,733 441 39 3	31,527 1,368 948
Second 1,821 2,480 1,096 4,668 1,480 5,330 1,327 4,079 1,215 1,064 24,68 24,68 2,658 2,658 742 2,410 2,693 3,035 2,505	Total	12,025	36,242	12,633	36,938	13,404	41,020	12,497	38,710	12,567	33,843
Tet.1 — 1,841 6,052 2,028 8,640 2,839 9,605 2,305 7,182 1,786 1,786 Jack Maternity Hospital:	sar Rural otoni	Product	2,480 1,064 2,508	1,096 244 688	4,568 1,037 3,035	1,480 855 504	5,330 2,658 1,617	1,327 742 236	4,079 2,410 693	1,215 269 302	3,856 627 326
Solution Maternity Hospital : 248 299 344 353 399 399 344 353 399 399 344 353 399 399 344 307 30	TOT 1	843	6,052	2,028	8,640	2,839	9,605	2,305	7,182	1,786	4,809
confinements 248 399 344 353 389 confinements 61 confinements 61 natal 201 b. Welfare <td< td=""><td>Zanzibar Mafernitor Ho</td><td>- 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Zanzibar Mafernitor Ho	- 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2									
confinements 61 confinements 61 natal	Total confinements		œ	29	0	344	~**	35.	60		366
confinements		A A									
natal 106 201 307	Makunducht Materraty Total confinements	FORE.		:	_	•		:			61
302		* * * *	• • •	: :	::	: :	::	: :	::	106	245
	å å å	6		• •	•	•	•			307	945

Pemba-Wete Clinic:

		Medical	and	Sa	unitary	Report	t
448 204	652	3	8.009 315 766	9,740			
+ <u>21</u>	231	- 0 10 10 0	0,700 140 248	4.138		& &	56
509 160	699	00000	659 1656 1756	9,546			_
131	961		4,110 70 139	4,325		95	67
554 313	867	2,000	223 1,049	8,589			canada
136	287	در در در	68 68 724	3.857		109	55
516 450	996	· · · · × × × × × × × × × × × × × × × ×	129	8.726			
123	207	1 2166	224	3,203		68	50
	:	12.739	1,571	14,809		-	_
	:	Ninic : 3.627	214	3,931	: 1'	7.	57
Ante-natal cases Infant Welfare	Total	Pemba—Chake Chake Clinic: Out-patients 3.	Ante-natal cases Infant Welfare	Total	Wete Maternity Hospital:	Total confinements	Chake Chake Hospital: Total confinements

Zanzibar Protectorate

Analysis of Maternity Cases

Maternity Hospital Zanzibar

	•			
Total confinements	• • •	• • •	•••	399
Maternal deaths	•••	• • •	• • •	10
Infant deaths	• • •	•••	•••	38
Premature deaths	•••	• • •	•••	36
Still born	• • •	• • •		17
Cæsarian section	•••	•••	•••	3
Forceps deliveries	• • •	• • •	• • •	9
Retained placenta	•••	• • •	• • •	6
Craniotomies	• • •	• • •	•••	1
Maternity	Home M	akund	duchi	
Total confinements		•••	• • •	61
Infant deaths	•••	•••	•••	5
Still births	•••	•••	•••	3
Twins premipara	•••	•••	• • •	1
Breach delivery	•••	•••	• • •	1
Premature deliveries	s multipara	• • •	•••	4
Premature deliveries	~	• • •	• • •	2
	Wete			
Total confinements				88
	• • •	• • •	• • •	25
Primipara	• • •	• • •	• • •	63
Multipara Normal deliveries	• • •	• • •	• • •	77
	• • •	• • •	• • •	3
Forceps deliveries	• • •	• • •	• • •	5 5
Cæsarian section	•••	• • •	•••	2
Abnormal presentati		• • •	• • •	
Craniotomies	•••	• • •	* * *	1
Maternal deaths	•••	• • •	• • •	2
Still births	• • •	• • •	* * *	6
Multiple pregnancy	•••	• • •	• • •	3
Retained placenta	• • •	• • •	• • •	1
Premature births	• • •	• • •	•••	9
C	hake Chak	e		
Total confinements	•••	• • •	•••	56
Primipara	• • •	• • •	• • •	15
Multipara				41
Normal deliveries	• • •	• • •		55
Abnormal presentati	ons	• • •	•••	1
Maternal deaths	•••		• • •	.2
Infant deaths	•••		•••	2
Still births	•••	• • •	• • •	2
Multiple pregnancy	***	• • •	•••	$\frac{1}{2}$
Retained placenta	•••		• • •	9
Premature births			• • •	1
TOTAL OUT OF THE OUT OUT OF THE OUT OUT OF THE OUT OF THE OUT OF THE OUT	•••	• • •	• • •	

SECTION VI.—REPORT ON SPECIAL DEPARTMENTS

EYE CLINIC

The Pathologist was in charge of the eye clinic during the year. The following are the totals of cases treated:—

New cases		• • •		3,521
Re-attendances	• • •		• • •	19,893
Vision testing (e		for Govern	ment	
employment)	•••	•••		610
European cases		• • •		29
		Total	• • •	24,053
Refraction for gl	asses	• • •	• • •	107
Operations, majo	r	• • •	• • •	55
,, mino	or	• • •		65
Cases admitted t	to hospital			114

LABORATORY

Zanzibar

The work of the Zanzibar Laboratory is briefly summarised as follows: -

Parasitological examinations	• • •		15,915
Bacteriological examinations	• • •		4,955
Serological examinations	• • •	• • •	1,904
Histological examinations	• • •		34
Medico-legal examinations	• • •	• • •	20
Post-mortem examinations		• • •	29
General (blood biochemical,	etc.)		5,016
Special (Aschein-Zondek, veter	rinary, etc	.)	8
	• /		
	Total		07 001

Total ... 27,881

Malaria

There was a slight increase of positive blood-films as compared with 1949:—

	1948		1949		1950
P. falciparum	1,502		1,044		1,569
P. vivax	525		196		262
P. malariæ	. 44		22	• • •	9
Undefined plasmodiæ	198	•••	145		217
	and the same of th				
	2,269		1,407		2,057

The demand for crude liver extract prepared in the laboratory for hospital use continues to increase and 162 litres were prepared as against 123 litres in 1949.

One hundred and thirty-three litres of sterile 5 per cent dextrose, 64 litres of 5 per cent dextrose in saline and 88 litres of saline solution were

prepared for hospital use against 15 litres of 5 per cent dextrose in saline in 1949.

Sterile solutions were also prepared for use in the Eye Clinic.

Pemba: Wete and Chake Chake

A notable feature of the year's work was the opening of a laboratory at Wete Hospital, Pemba. The Senior Laboratory Assistant was posted to Pemba in April and under his care work was begun on lines similar to those in use in the Zanzibar Laboratory. A total of 5,593 examinations were carried out during the nine months in which the laboratory was in use.

The total number of examinations performed was:—

		Wete	Ch	ake Chake
Blood films	• • •	2,441	•••	1,752
Stool and urine		1,629	• • •	2,017
Blood counts	•••	241	• • •	
Smears, sputum, etc.	•••	351	• • •	342°
		4,662		4,111
•				

REPORT OF DENTAL SURGEON

The following is an approximate summary of some of the work carried out by the Department during the year; it does not include patients treated while hospitalized, for example fractured jaws, etc.:—

		At	tendance:	s d	Extraction	S	Fillings	S	Scaling
Schools	•••	• • •	1,002		323		799		6
Native out-patients	•••	•••	7,199		8,272		-		8
Other patients (official	s and	families							
and non-officials)			1,952	• • •	311		735		186

MENTAL HOSPITAL

No new building has been undertaken at the Mental Hospital during the year 1950. Minor repairs have been done when necessary, and a telephone has been installed in the office.

With the help of a Garden Superintendent from the Agriculture Department, extensive planting has been achieved at the Mental Hospital.

A bougainvillæa hedge has been planted almost round the boundary of the hospital grounds and along the frontage of the male compounds.

An avenue of about 40 royal palms has been planted along the drive from the road to the office. Twenty-one other trees have been planted in the compounds, behind the hospital, and along the road. In addition about 50 ornamental shrubs have been put in.

The following figures show the number of patients treated:—

Remair	ning	on	31st	December,	1949	• • •	115
Admitt	ed		• • •	• • •		•••	57
Discha	rged		• • •	•••			37
Deaths						• • •	12
Remain	ning	on	31st	December.	1950		123

The hospital diet was revised in July, 1950, effecting a slight reduction in the cost and an improvement in the food itself. The new diet yields the following:—

- (1) Protein 88.6 gms. per diem. (2) Fat 82.2 ,, ,,
- (3) Carbohydrate 495 ,, ,
- (4) Calories about 3,000 per diem

The approximate content of vitamins and minerals have also been worked out and are satisfactory.

STAFF IMPROVEMENT

Three male staff nurses were posted to the Mental Hospital, during the year. This number will be augmented when more trained staff pass out from the training school.

WELEZO INSTITUTION

This institution which is under the control of the Sisters of the Roman Catholic Mission has accommodation for (a) the old and infirm, (b) tubercular patients, (c) leprosy patients.

The following figures show the work done during 1950:—

Poor House

Number	remaining 31st December, 1949	 156
, ,	admitted during 1950	 163
, ,	discharged during 1950	 87
* *	died during 1950	 77
٠,	remaining 31st December, 1950	 155
	Tanan Sattlamant	

Leper Settlement

Number	remaining 31st December, 1949		52
, ,	admitted during 1950		10
, ,	discharged during 1950	• • •	1
, ,	died during 1950		12
, ,	remaining 31st December, 1950		49

Tuberculosis Asylum

Number	remaining 31st December, 1949	 11
,,	admitted during 1950	 49
, ,	discharged during 1950	 17
: ;	died during 1950	 36
, ,	remaining 31st December, 1950	 6

Prisons

Zanzibar.—There were 861 new cases and 6,265 re-attendances at the Prison Infirmary during the year.

One hundred and eighteen cases of malaria were recorded. All new prisoners are medically examined and if necessary treated before being put to work.

The following is a summary of the work carried out:—

6-	Number of	Daily average	Daily average
	persons	in	on sick
	admitted	prisons	list
Zanzibar	264	301.95	29.09
Pemba	32	49.90	00.95

SECTION VII.—FINANCE

(a) Expenditure, Health Department

		£
Personal Emoluments	•••	50,244
Other Charges:		
General Stores	• • •	2,757
Drugs, Dental and Surgical Requisites	S	9,730
Maintenance of Patients	• • •	14,333
Sanitation Labour	• • •	3,074
Miscellaneous Services	•••	11,676
Total	•••	91,814
(b) Expenditure, Municipa	ılitar	
(b) Expenditure, Municipa	uug	£
Personal Emoluments		4,328
Other Charges:	•••	1,020
Equipment and Stores		145
Sanitation Labour	•••	9,367
paintation Labour	•••	
. Total	• • •	13,840
(c) Revenue		
· /		£
Hospital Fees and sale of Drugs	• • •	3,455
Dental Fees	•••	344
Contribution from dependencies tow	ards	
Quarantine Station		1,462
Total	•••	5,261

SECTION VIII—LEGISLATION AFFECTING THE PUBLIC HEALTH ENACTED DURING THE YEAR

Public Health Decree (Cap. 60):

A decree to amend the Public Health Decree No. 28 of 1950.

Dangerous Drugs Decree (Cap. 64):

Dangerous Drugs Order, 1950.

The Mental Patients Decree, 1947:

A decree to amend the Mental Patients Decree No. 26 of 1950.

TABLES I AND II

Return of Diseases and Deaths for the Year 1950

This table includes only those diseases which were diagnosed in hospitals under the charge of a medical officer or assistant medical officer.

DISEASES	Remaining in Hospital at end of Dec. 1949	Yearly Admissions	Total Cases Treated	Total Deaths	Remaining in Hospital on 31st Dec.	All Cases including both In and Out Patients	Total Cases Treated in 1949
1. Enteric Group— (a) Typhoid fever	2	8	. 10	2		1-4	19
(b) Paratyphoid fever		4	4		•••	8	•••
2. Typhus fever		2	2	•••	•••	3	4
3. Relapsing fever 4. Undulant fever	• • • •	• • •	•••	•••	• • •		• • •
5. Smallpox				• • •	• • •		• •
6. Measles		1	1	•••	• • •	2	59
7. Scarlet fever		• • •	• • • • • •	• • •	• • •	 P7 d	
8. Whooping cough 9. Diphtheria		• • •		• • •	• • •	71	89 8
10. Influenza— (a) With respiratory	3	•••	1	• • •	• • •	Å	
complications (b) Without respiratory	•••	3	3	• • •	• • •	4	37
complications		21	21	• • •	• • •	490	370
11. Cholera 12. Dysentery—		•••	• • •	• • •	• • •	• • •	• • •
(a) Amoebic		65	65	1	5	89	106
(b) Bacillary		29	29	1	1	79	19
(c) Unclassified		6	6	1		43	41
13. Plague— (a) Bubonic		• • •	* * *			• • •	
(b) Pneumonic		• • •	•••		•••	• • •	•••
(c) Septicæmic	•••	• • •	• • •		•••	• • •	• • •
14. Acute poliomyelitis 15. Encephalitis lethargica		• • •	• • •	•••			1
16. Cerebro-spinal fever	1	4	4	3	• • •	6	
17. Rabies		• • •					
18. Tetanus	1	7	8	3		14	12
19. Tuberculosis of the respiratory system	. 8	83	91	14	11	200	250
20. Other tuberculous dis-							
eases		$\frac{4}{2}$	$\frac{4}{2}$	•••		$\begin{array}{c c} & 10 \\ 12 \end{array}$	$\begin{array}{c c} 6 \\ 28 \end{array}$
21. Leprosy 22. Venereal diseases—	•	4	4	• • •	•••	12	40
(a) Syphilis		46	49	3	4	692	577
(b) Gonorrhæa	. 4	102	106	•••	5	795	843
(c) Other venereal diseases		5	5			. 70	23
23. Yellow fever	1						
24. Malaria—						104	
(a) Benign tertian (b) Subtertian	1 7	58 281	$\begin{array}{c c} 58 \\ 288 \end{array}$	14	5	164	1.656 2.431
(c) Subtertian	1	1	1	14		1,440	8
(d) Unclassified	=	245	250	6	4	7,216	4,127
25. Blackwater fever		5	5	•••	•••	6	3
26. Kala-azar 27. Trypanosomiasis	1	• • •	• • •				
28. Yaws		41	46		3	5,433	3,953
29. Other protozoal diseases		4	4	10		38	5 254
30. Ancylostomiasis 31. Schistosomiasis		78 24	83 24	18	7	3,661 566	5,354
31. Schistosomiasis 32. Other helminthic diseases		18	19	3	3	101	50
Carried forward	. 42	1,147	1,189	69	53	21,240	20,792

TABLES I AND II.—(Contd.)

						t .	
DISEASES	Remaining in Hospital at end of Dec. 1949	Yearly Admissions	Total Cases Treated	Total Deaths	Remaining in Hospital on 31st Dec. 1950	All Cases including both In and Out	Total Cases Treated in 1949
Brought forward	42	1,147	1,189	69	53	21,240	20,792
33. Other infectious and/or parasitic diseases 34. Cancer and other tumours	14	147	161	1	1	1,030	660
(a) Malignant (b) Non-malignant	1	21 54	$\begin{array}{c} 22 \\ 54 \end{array}$	11 7	5 2	39 102	27 96
(c) Undetermined		1	1	• • •		17	14
35. Rheumatic conditions 36. Diabetes	$\frac{\cdots}{2}$	$\frac{18}{34}$	18 3 6	 10	 2	539 78	489 73
37. Scurvy		•••		•••			
38. Beri-beri		• • •			• • •		3 2
39. Pellagra 40. Other diseases—		1	1	1	•••	2	2
(a) Nutritional(b) Endocrine glands and	1	4 5	46	14	2.	236	298
general 41. Diseases of the blood and	• • •	•••	• • •	• • •		128	168
blood forming organs 42. Acute and chronic	2	105	107	30	6	1,738	1,568
poisoning 43 Cerebral hæmorrhage	•••	3	3	• • •	• • •	$\tilde{5}$	8 10
43 Cerebral hæmorrhage 44. Other diseases of the	•••	• • •	•••	• • •	• • •	i i	117
nervous system	2	57	59	4	2	325	570
45. Trachoma 46. Other diseases of the eye	• • •	2	2	•••	•••	14	16
and annexa	5	183	188	1	7	4,851	4,861
47. Diseases of the ear and mastoid sinus	1	19	20		1	1,172	1,091
48. Diseases of the circulatory system—	_	10	<i>4</i> .€	•••	1	1,112	1,031
(a) Heart diseases(b) Other circulatory	5	65	.70	27	4	139	423
diseases 49. Bronchitis	$\frac{2}{2}$	$\begin{array}{c} 27 \\ 92 \end{array}$	$\begin{array}{c} 29 \\ 94 \end{array}$	$\frac{4}{2}$	1	$\frac{148}{3,284}$	$\frac{100}{3,457}$
50. Pneumonia—			<i>U</i> 1		1	0,404	0,401
(a) Broncho-pneumonia	1	39	40	5	$\frac{2}{7}$	81	143
(b) Lobar-pneumonia (c) Otherwise defined	14	303	317	33		$\frac{583}{3}$	$\begin{array}{c c} 525 \\ 28 \end{array}$
51. Other diseases of the							
respiratory system 52. Diarrhœa and enteritis— (a) Under two years of	6	70	76	4	3	5,078	4,489
age		1	1			100	95
(b) Over two years of age	1	84	85	3	3	641	588
53. Appendicitis 54. Hernia and intestinal	1	16	17		1	32	24
obstruction	11	266	277	14	17	624	572
55. Cirrhosis of the liver56. Other diseases of the liver		23	23	3	1	39	`22
and biliary passages 57. Other diseases of the		44	46	7	4	129	115
digestive system	5	179	184	8	6	9,973	10 310
58. Nephritis (all forms)— (a) Acute	1	5	6		}	10	1
(b) Chronic		5 7	7	2	•••	25	14
Carried forward	122	3,058	3,180	260	131	52,406	51,652

TABLES I AND II.—(Contd.)

	DISEASES	Remaining in Hospital at end of Dec., 1949	Yearly Admissions	Total Cases Treated	Total	Remaining in Hospital on 31st Dec. 1950	All Cases including both In and Out Patients	Total Cases Treated in 1949
	Brought forward	122	3,058	3.180	260	131	52,406	51,652
	Other non-venereal diseases of the genito- urinary system Diseases of pregnancy, childbirth and the puer-	12	359	371	12	18	2,779	2,678
	peral state— (a) Abortion (b) Ectopic gestation (c) Toxemias of preg-	1	64 3	65 3	1 1	 2 	97 4	102 160
	nancy	•••	1	1		• • •	7	68
	(d) Other conditions of the puerperal state	1	41	42	5	• • •	78	163
61.	Diseases of the skin, cellular tissue, bones and	58	1,199	1,257	32	50	17,530	
62.	organs of locomotion Congenital malformations and diseases of early infancy— (a) Congenital debility	00	1,100	1,2;) (,)2	JU		17,042
	(children under 1 yr.) (b) Premature birth	••	• • •	• • •		• • •	1 1	11
	(c) Injury at birth		• • •				•••	
63.	(d) Others Senility	1	$\frac{2}{20}$	$\frac{3}{20}$	 15		$\frac{3}{127}$	2 163
	External causes—	•••	<i>⊶</i>	20	10	1	121	100
	(a) Suicide (b) Other forms of	• • •	• • •	• • •	•••	• • •		•••
	violence	51	461	512	11	25	6,705	5,900
	Ill-defined causes Ante-natal and child	2	248	250	9	13	3,131	2,991
	welfare consultations		69	69		2	1,514	1,327
67.	Normal deleveries in- cluding born before							
	admission		486	486	11	2	486	• • •
	Total	248	6,011	6,259	357	244	84,872	82,260

